Client Ref.:91p76
Our ref: 0702-9557-US/final/Vincent/Steve

10

ABSTRACT OF THE DISCLOSURE

A method of manufacturing a semiconductor device having a first and second transistor of an ESD protection and The method includes the internal circuit respectively. steps of providing a substrate, forming gates of the first and second transistor on the substrate, depositing a mask layer and patterning the mask layer using one single mask to remove the mask layer on the gates, a portion of a drain region of the first transistor, and a source and drain region of the second transistor, implementing implantation under the regions without the patterned mask layer, removing the mask layer and forming sidewall spacers of the gates, and implementing drain diffusion.